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RAW SEQUENCE LISTING

DATE: 11/07/2001

PATENT APPLICATION: US/09/966,147

TIME: 14:24:21

Input Set : A:\GENENT.33CPC4Cseqlist.txt
Output Set: N:\CRF3\11072001\1966147.raw

SEQUENCE LISTING

```
3 (1) GENERAL INFORMATION:
                                                                   ENTERED
             (i) APPLICANT: Presta, Leonard G.
      6
                            Shelton, David L.
                            Urfer, Roman
      7
            (ii) TITLE OF INVENTION: HUMAN trk RECEPTORS AND NEUROTROPHIC FACTOR INHIBITORS
      9
           (iii) NUMBER OF SEQUENCES: 41
     11
            (iv) CORRESPONDENCE ADDRESS:
     13
                  (A) ADDRESSEE: Knobbe, Martens, Olson & Bear, LLP
     14
                  (B) STREET: 620 Newport Center Drive, 16th Floor
     15
                  (C) CITY: Newport Beach
     16
                  (D) STATE: California
     17
                  (E) COUNTRY: USA
     18
     19
                  (F) ZIP: 92660
             (V) COMPUTER READABLE FORM:
     21
                  (A) MEDIUM TYPE: 3.5 inch, 1.44 Mb floppy disk
     22
                  (B) COMPUTER: IBM PC compatible
     23
                  (C) OPERATING SYSTEM: PC-DOS/MS-DOS
     24
     25
                  (D) SOFTWARE: WinPatin (Genentech)
     27
            (vi) CURRENT APPLICATION DATA:
                  (A) APPLICATION NUMBER: US/09/966,147 7
C--> 28
                  (B) FILING DATE: 27-Sep-2000 ₽₩
C--> 29
                  (C) CLASSIFICATION:
     30
           (vii) PRIOR APPLICATION DATA:
C--> 40
     33
                  (A) APPLICATION NUMBER: 08/446172
     34
                  (B) FILING DATE: 19-MAY-1995
                  (A) APPLICATION NUMBER: 08/286846
     37
     38
                  (B) FILING DATE: 05-AUG-1994
     41
                  (A) APPLICATION NUMBER: 08/215139
                  (B) FILING DATE: 18-MAR-1994
     42
          (viii) ATTORNEY/AGENT INFORMATION:
C-->44
     45
                  (A) NAME: Dreger, Ginger
                  (B) REGISTRATION NUMBER: 33,055
     46
     47
                  (C) REFERENCE/DOCKET NUMBER: GENENT.33CPC4C
            (ix) TELECOMMUNICATION INFORMATION: OV
C-->49
                  (A) TELEPHONE: (415) 954-4114
     50
                  (B) TELEFAX: (415) 954-4111
     51
        (2) INFORMATION FOR SEQ ID NO: 1:
             (i) SEQUENCE CHARACTERISTICS:
     55
     56
                  (A) LENGTH: 3194 base pairs
     57
                  (B) TYPE: Nucleic Acid
     58
                  (C) STRANDEDNESS: Single
     59
                  (D) TOPOLOGY: Linear
W--> 60
            (ii) MOLECULE TYPE: nucleic acid
     62
            (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1:
        GGAAGGTTTA AAGAAGAGC CGCAAAGCGC AGGGAAGGCC TCCCGGCACG 50
     65
```

GGTGGGGGAA AGCGGCCGGT GCAGCGCGGG GACAGGCACT CGGGCTGGCA 100

67



69	CTGGCTGCTA	GGGATGTCGT	CCTGGATAAG	GTGGCATGGA	CCCGCCATGG	150
71	CGCGGCTCTG	GGGCTTCTGC	TGGCTGGTTG	TGGGCTTCTG	GAGGGCCGCT	200
73	TTCGCCTGTC	CCACGTCCTG	CAAATGCAGT	GCCTCTCGGA	TCTGGTGCAG	250
75	CGACCCTTCT	CCTGGCATCG	TGGCATTTCC	GAGATTGGAG	CCTAACAGTG	300
77	TAGATCCTGA	GAACATCACC	GAAATTTTCA	TCGCAAACCA	GAAAAGGTTA	350
79	GAAATCATCA	ACGAAGATGA	TGTTGAAGCT	TATGTGGGAC	TGAGAAATCT	400
81	GACAATTGTG	GATTCTGGAT	TAAAATTTGT	GGCTCATAAA	GCATTTCTGA	450
83	AAAACAGCAA	CCTGCAGCAC	ATCAATTTTA	CCCGAAACAA	ACTGACGAGT	500
85	TTGTCTAGGA	AACATTTCCG	TCACCTTGAC	TTGTCTGAAC	TGATCCTGGT	550
87	GGGCAATCCA	TTTACATGCT	CCTGTGACAT	TATGTGGATC	AAGACTCTCC	600
89	AAGAGGCTAA	ATCCAGTCCA	GACACTCAGG	ATTTGTACTG	CCTGAATGAA	650
91	AGCAGCAAGA	ATATTCCCCT	GGCAAACCTG	CAGATACCCA	ATTGTGGTTT	700
93	GCCATCTGCA	AATCTGGCCG	CACCTAACCT	CACTGTGGAG	GAAGGAAAGT	750
95	CTATCACATT	ATCCTGTAGT	GTGGCAGGTG	ATCCGGTTCC	TAATATGTAT	800
97	TGGGATGTTG	GTAACCTGGT	TTCCAAACAT	ATGAATGAAA	CAAGCCACAC	850
99	ACAGGGCTCC	TTAAGGATAA	CTAACATTTC	ATCCGATGAC	AGTGGGAAGC	900
101	AGATCTCTTG	TGTGGCGGAA	AATCTTGTAG	GAGAAGATCA	AGATTCTGTC	950
103			ACCAACTATC			
105	CTCAGACCAC	CACTGGTGCA	TTCCATTCAC	TGTGAAAGGC	AACCCAAAAC	1050
107			AACGGGGCAA			
109	ATCTGTACTA	AAATACATGI	TACCAATCAC	ACGGAGTACC	ACGGCTGCCT	1150
111			ACATGAACAA			
113			GATGAGAAAC			
115			TGGTGCAAAC			
117	TTATGAAGAT	TATGGAACTG	CAGCGAATGA	CATCGGGGAC	ACCACGAACA	1350
119			ACAGACGTCA			
121	CATCTCTCGG	TCTATGCTGT	GGTGGTGATT	GCGTCTGTGG	TGGGATTTTG	1450
123	CCTTTTGGTA		TGCTTAAGTT			
125			GTTATCAGCA			1550
127			TGGGAGTAAC			
129			TTGGAATGAC			
131			ACCAACAGTC			
133			TAACATTGTT			
135		GGAAAAGTGT			CTCTGTCCTG	
137			GCAGTGAAGA			
139	AATGCACGCA	AGGACTTCCA	CCGTGAGGCC	GAGCTCCTGA	CCAACCTCCA	1900
141		ATCGTCAAGT			GGCGACCCCC	
143	TCATCATGGT	CTTTGAGTAC	ATGAAGCATG			
145			CGTGCTGATG			
147			TGCTGCATAT			
149			CAGCACTTCG			
151			GAACTTGCTG			
153			GCACTGACTA			
155			ATGCCTCCAG			
157			CTGGAGCCTG			
159			CCTGGTACCA			
161			CGAGTCCTGC			
163			GCTGGGGTGC			
165			TCCATACCCT			

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167	CAT	CTCC	GGT (CTAC	CTGG	AC A	TTCT	AGGC'	T AG	GGCC	CTTT	TCC	CCAG	ACC	2600
169	GAT	CCTT	CCC I	AACG'	TACT	CC T	CAGA	CGGG	C TG	AGAG	GATG	AAC	ATCT	rtt :	2650
171	AAC'	TGCC	GCT (GGAG	GCCA	CC A	AGCT	GCTC'	T CC	TTCA	CTCT	GAC	AGTA!	TA :	2700
173	ACA'	TCAA.	AGA (CTCC	GAGA	AG C	TCTC	GAGG	G AA	GCAG'	TGTG	TAC	TTCT:	rca :	2750
175	TCC	ATAG.	ACA (CAGT	ATTG	AC T	TCTT:	TTTG	G CA	TAT	CTCT	TTC	rcrc:	rtt :	2800
177	CCA'	TCTC	CCT :	TGGT'	TGTT	CC T	TTTT	CTTT	T TT	raaa'	TTTT	CTT	TTTC:	rtc :	2850
179	TTT	TTTT'	TCG :	rctt(CCCT	GC T	TCAC	GATT	C TT	ACCC'	TTTC	TTT	rgaa:	CA	2900
181	ATC:	TGGC'	TTC :	rgca'	TTAC:	ra T	TAAC'	rctg(C AT	AGAC	AAAG	GCC'	TAAC	CAA	2950
183	ACG:	TAAT'	TTG :	TTAT	ATCA	GC A	GACA	CTCC	A GT	rtgc	CCAC	CAC	AACT	AAC .	3000
185									r gg						
187	AAA!	TATT'	TCA (CTTA	AACT'	rt G	TCAC	TTCT	G CT	GTAC	AGAT	ATC	GAGA	STT	3100
189												CTT	ATTG	rtt .	3150
191															
193															
195	` '						TERI								
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197	• •														
198			•	•			Linea								
200		(xi)	-	•					EQ II	ои с	: 2:				
202									Gly			Met	Ala	Arg	Leu
203	1			•	5	_	•		-	10				-	15
205	Trp	Gly	Phe	Cys	Trp	Leu	Val	Val	Gly	Phe	Trp	Arg	Ala	Ala	Phe
206	-	_		-	20				-	25	-	_			30
208	Ala	Cvs	Pro	Thr	Ser	Cvs	Lys	Cys	Ser	Ala	Ser	Arq	Ile	Trp	Cys
209		-			35	•	•	-		40				-	45
211	Ser	Asp	Pro	Ser	Pro	Gly	Ile	Val	Ala	Phe	Pro	Arg	Leu	Glu	Pro
212		-			50	-				55		_			60
214	Asn	Ser	Val	Asp	Pro	Glu	Asn	Ile	Thr	Glu	Ile	Phe	Ile	Ala	Asn
215				-	65					70					75
217	Gln	Lys	Arg	Leu	Glu	Ile	Ile	Asn	Glu	Asp	Asp	Val	Glu	Ala	Tyr
218		-	•		80					85	_				90
220	Val	Gly	Leu	Arg	Asn	Leu	Thr	Ile	Val	Asp	Ser	Gly	Leu	Lys	Phe
221		_		_	95					100					105
223	Val	Ala	His	Lys	Ala	Phe	Leu	Lys	Asn	Ser	Asn	Leu	Gln	His	Ile
224					110					115					120
226	Asn	Phe	Thr	Arg	Asn	Lys	Leu	Thr	Ser	Leu	Ser	Arg	Lys	His	Phe
227					125					130					135
229	Arg	His	Leu	Asp	Leu	Ser	Glu	Leu	Ile	Leu	Val	Gly	Asn	Pro	Phe
230					140					145					150
232	Thr	Cys	Ser	Cys	Asp	Ile	Met	Trp	Ile	Lys	Thr	Leu	Gln	${\tt Glu}$	Ala
233					155					160					165
235	Lys	Ser	Ser	Pro	Asp	Thr	Gln	Asp	Leu	Tyr	Cys	Leu	Asn	Glu	Ser
236	_				170					175					180
238	Ser	Lys	Asn	Ile	Pro	Leu	Ala	Asn	Leu	Gln	Ile	Pro	Asn	Cys	Gly
239		-			185					190					195
241	Leu	Pro	Ser	Ala	Asn	Leu	Ala	Ala	Pro	Asn	Leu	Thr	Val	Glu	Glu
242					200					205					210
244	Gly	Lys	Ser	Ile	Thr	Leu	Ser	Cys	Ser	Val	Ala	Gly	Asp	Pro	Val
245	-	-			215			•		220					225



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247	Pro	Asn	Met	Tyr	-	Asp	Val	Gly	Asn		Val	Ser	Lys	His	Met
248		a 1	m1	a	230	m1	a 1	61	a	235		-1 -	m 1	3	240
250	Asn	GIU	Thr	ser	His 245	Tnr	GIN	GTĀ	ser	ьеи 250	Arg	тте	Thr	ASN	255
251 253	Sor	Sar	λen	λen	Ser	Glv	T.v.c	Gln	Tlo		Cve	Val	Δla	Glu	
254	261	Ser	кэр	кэр	260	GIY	шуз	GIII	TIE	265	Cys	Val	Ala	Giu	270
256	Leu	Val	Glv	Glu	Asp	Gln	Asp	Ser	Val		Leu	Thr	Val	His	
257			<u> </u>		275					280					285
259	Ala	Pro	Thr	Ile	Thr	Phe	Leu	Glu	Ser	Pro	Thr	Ser	Asp	His	His
260					290					295					300
262	Trp	Cys	Ile	Pro	Phe	Thr	Val	Lys	Gly	Asn	Pro	Lys	Pro	Ala	Leu
263					305					310					315
265	Gln	Trp	Phe	Tyr	Asn	Gly	Ala	Ile	Leu		Glu	Ser	Lys	Tyr	
266	_		_	- 1	320	1	m1.		**	325	61		** ' -	a 1	330
268	Cys	Thr	ьуs	тте	His	vaı	Thr	Asn	HIS	340	GIU	туr	HIS	GTÄ	
269 271	Lou	Cln	Lou	λαη	335 Asn	Dro	Thr	Uic	Mat		λen	G1 ₁₇	λen	Фиг	345 Thr
271	цец	GIII	цец	кэр	350	FIO	1111	1112	Mec	355	RSII	Gry	кэр	ıyı	360
274	Leu	Ile	Ala	Lvs	Asn	Glu	Tvr	Glv	Lvs		Glu	Lvs	Gln	Ile	
275				-1	365		1	_	-	370		-			375
277	Ala	His	Phe	Met	Gly	Trp	Pro	Gly	Ile	Asp	Asp	Gly	Ala	Asn	Pro
278					380					385					390
280	Asn	Tyr	Pro	Asp	Val	Ile	Tyr	Glu	Asp	_	Gly	Thr	Ala	Ala	Asn
281		_	_		395					400	_	_			405
283	Asp	Ile	Gly	Asp	Thr	Thr	Asn	Arg	Ser		Glu	He	Pro	Ser	
284	7 ~~	17.0 1	mhs	7 0 0	410	mb ~	c1	7 200	C1.,	415	T 011	C0.77	17.2.1	Шттт	420
286 287	ASP	Val	TILL	ASP	Lys 425	1111	GTA	AIG	GIU	430	ьeu	ser	Val	тут	435
289	Val	Va l	Va 1	Tle	Ala	Ser	Va1	Val	Glv		Cvs	Leu	Len	Val	
290	, 41	, 44		110	440	001	, 42	, 42	0-1	445	015				450
292	Leu	Phe	Leu	Leu	Lys	Leu	Ala	Arg	His	Ser	Lys	Phe	Gly	Met	Lys
293					455			_		460	-		_		465
295	Gly	${\tt Pro}$	Ala	Ser	Val	Ile	Ser	Asn	Asp	Asp	Asp	Ser	Ala	Ser	Pro
296					470					475					480
298	Leu	His	His	Ile	Ser	Asn	Gly	Ser	Asn		Pro	Ser	Ser	Ser	
299	01	a 1	5		485	**- 1	-1 -	-1 -	01	490	m1	.	T1 -	D	495
301	GLY	GLY	Pro	Asp	Ala	vaı	тте	тте	GIĀ		Thr	гаг	TTE	Pro	
302 304	Tlo	Clu	λαη	Dro	500 Gln	Птех	Dho	Clv	Tlo	505	λen	Car	Gln.	Lou	510
305	116	GIU	ASII	PIO	515	TYL	File	GIY	116	520	ASII	361	GIII	цец	525
307	Pro	Asp	Thr	Phe	Val	Gln	His	Ile	Lvs		His	Asn	Ile	Val	
308					530				-1-	535					540
310	Lys	Arg	Glu	Leu	Gly	Glu	Gly	Ala	Phe	Gly	Lys	Val	Phe	Leu	Ala
311		_			545					550					555
313	Glu	Cys	Tyr	Asn	Leu	Cys	Pro	Glu	Gln		Lys	Ile	Leu	Val	
314			_		560		_			565			_	_	570
316	Val	Lys	Thr	Leu	Lys	Asp	Ala	Ser	Asp		Ala	Arg	Lys	Asp	
317	tT	3	~1	a 1 -	575	T	T ~	ml	7	580	C1-	II 4 -	C1	111 -	585
319	HIS	arg	GIU	Ата	Glu	ьeu	ьeu	rnr	ASN	Leu	GIN	HIS	GIU	HIS	тте

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320					590					595					600
322	Val	Lys	Phe	Tyr	Gly	Val	Cys	Val	Glu	Gly	Asp	Pro	Leu	Ile	Met
323					605					610					615
325	Val	Phe	Glu	Tyr	Met	Lys	His	Gly	Asp	Leu	Asn	Lys	Phe	Leu	Arg
326					620					625					630
328	Ala	His	Gly	Pro	Asp	Ala	Val	Leu	Met	Ala	Glu	Gly	Asn	Pro	Pro
329					635					640					645
331	Thr	Glu	Leu	Thr	Gln	Ser	Gln	Met	Leu	His	Ile	Ala	Gln	Gln	Ile
332					650					655					660
334	Ala	Ala	Gly	Met	Val	Tyr	Leu	Ala	Ser	Gln	His	Phe	Val	His	Arq
335			-		665	-				670					675
337	Asp	Leu	Ala	Thr	Arq	Asn	Cvs	Leu	Val	Gly	Glu	Asn	Leu	Leu	Val
338	•				680		•			685					690
340	Lvs	Tle	Glv	Asp	Phe	Glv	Met	Ser	Ara	Asp	Val	Tvr	Ser	Thr	Asp
341	-10		1		695	1			5	700		-1-			705
343	Tvr	Tvr	Ara	Val		Glv	His	Thr	Met		Pro	Ile	Ara	Trp	
344	-1-	-1-			710	0-1				715			5		720
346	Pro	Pro	Glu	Ser		Met	Tvr	Arg	Lvs		Thr	Thr	Glu	Ser	
347	110	110	OIU	CI	725	1100	-1-	9	_10	730			0		735
349	Val	Trn	Ser	Len		Va l	Val	Leu	Trn		Tle	Phe	Thr	Tvr	
350	, aı	112	501	шец	740	, ,	, 42	шец		745	110	1 110		-1-	750
352	T.vc	Gln	Pro	Tro		Gln	Len	Ser	Asn		Glu	Va l	Tle	Glu	
353	БуЗ	OI.	110	115	755	0111	Deu	001	11011	760	014	, 41	110	014	765
355	Tla	Thr	Gln	G1v		Va 1	Len	Gln	Δrσ		Δrσ	Thr	Cvs	Pro	
356	110	1111	GIII	Gry	770	Vul	пси	0111	nrg	775	mrg	1111	CYS	110	780
358	Glu	Val	Tur	Glu		Met	T.eu	Gly	Cvs	–	Gln	Δrσ	Glu	Pro	
359	Giu	vai	ı yı	GIU	785	nec	пси	Ory	Cys	790	OIII	1119	Olu	110	795
361	Mat	λrσ	T.vc	λen		Lvc	Glv	Ile	Hic		T.011	T.e.ii	Gln	Δsn	
362	nec	my	шуз	11511	800	1,5	011	110		805	Dea	шеш	01		810
364	Δla	T.vc	Δla	Ser		Val	Tur	Leu	Δsn		T.e.u	Glv			010
365	AIU	цуз	AIU	UCI	815	vuı	- 1 -	пси	пор	820	Deu	011			
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380								CGGC							
382								TAAC							
384								GTTC							
386								CAGI							
388								TTCC							
390								TTC							
392								AGCI							
394								TTGI							
396								TTTP							
398								TGAC							
590	.101	CIMC	JGR A	m-CU 1	1100			LUMC			,,,,r,C	TOU			

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/966,147

DATE: 11/07/2001 TIME: 14:24:22

Input Set : A:\GENENT.33CPC4Cseqlist.txt
Output Set: N:\CRF3\11072001\1966147.raw

L:28 M:220 C: Keyword misspelled or invalid format, [(A) APPLICATION NUMBER:]

L:29 M:220 C: Keyword misspelled or invalid format, [(B) FILING DATE:]

L:36 M:220 C: Keyword misspelled or invalid format, [(vii) PRIOR APPLICATION DATA:]
L:40 M:220 C: Keyword misspelled or invalid format, [(vii) PRIOR APPLICATION DATA:]
L:44 M:220 C: Keyword misspelled or invalid format, [(viii) ATTORNEY/AGENT INFORMATION:]

L:49 M:220 C: Keyword misspelled or invalid format, [(ix) TELECOMMUNICATION INFORMATION:]

L:60 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=1